

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
**WO 2004/004816 A1**

(51) International Patent Classification<sup>7</sup>: **A61M 16/04**

(21) International Application Number:  
PCT/GB2003/002473

(22) International Filing Date: 9 June 2003 (09.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0215733.7 6 July 2002 (06.07.2002) GB

(71) Applicant (for all designated States except US): **KAPITEX HEALTHCARE LIMITED** [GB/GB]; Kapitex House, 1 Sandbeck Way, Wetherby, West Yorkshire LS22 7GH (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **WORTHINGTON, Ian, David** [GB/GB]; Kapitex House, 1 Sandbeck Way, Wetherby, West Yorkshire LS22 7GH (GB).

(74) Agent: **NOVAGRAAF PATENTS LIMITED**; The Crescent, 54 Blossom Street, York YO24 1AP (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

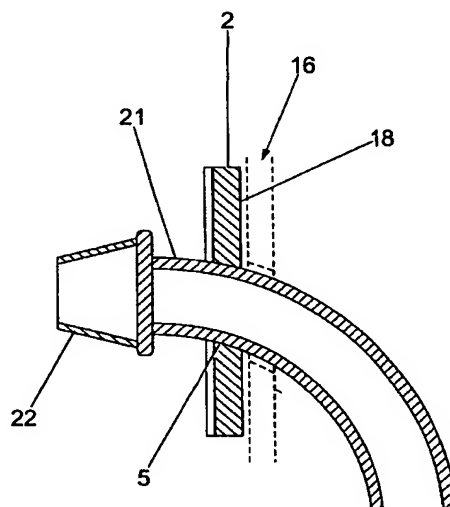
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **TRACHEOSTOMA CANNULA MOUNTING**



(57) Abstract: A tracheostoma cannula mounting, a cannula assembly incorporating such a mounting, and a method of mounting the same within a stoma are described. The mounting includes a generally planar sheet portion (2) provided with an aperture (4) therein of suitable size and shape to engage a channel portion of a tracheostoma cannula (21) in interference fit so as to present a rearward mounting face (18) adapted in use to lie against the skin of the tracheostoma patient in the vicinity of the stoma. The material from which the sheet (2) is fabricated comprises tacky gel material such as silicone gel at least in the vicinity of the mounting face (18), and is preferably made essentially entirely from such material.

## INTERNATIONAL SEARCH REPORT

PCT/GB 03/02473

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61M16/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61M A61J A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 640 741 A (ETES DONALD E) 8 February 1972 (1972-02-08)	1,2,4-8
Y	column 2, line 18 - line 22 column 9, line 3 - line 9 figures 2,3	3,9,10
Y	US 5 000 741 A (KALT GLENDA G) 19 March 1991 (1991-03-19) column 5, line 59 - column 6, line 15 column 7, line 4 - column 8, line 21 claim 13; figures 2,5A,5B,6A,6B	3,10
Y	US 4 254 008 A (KRSEK GEORGE) 3 March 1981 (1981-03-03) column 1, line 12 - line 27 column 4, line 12 - line 18	9
	-/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## ° Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*8\* document member of the same patent family

Date of the actual completion of the international search

24 September 2003

Date of mailing of the international search report

10/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Borowski, A

# INTERNATIONAL SEARCH REPORT

PCT/GB 03/02473

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 91 05579 A (PHARMA SYSTEMS PS AB) 2 May 1991 (1991-05-02) whole document	1,10

# INTERNATIONAL SEARCH REPORT

PCT/GB 03/02473

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 11 12  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery: a method of mounting a cannula in a tracheostoma.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

PCT/GB 03/02473

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3640741	A	08-02-1972	NONE	
US 5000741	A	19-03-1991	US 4917112 A AU 4801590 A CA 2005436 A1 WO 9006735 A1	17-04-1990 10-07-1990 13-06-1990 28-06-1990
US 4254008	A	03-03-1981	AT 4814 T CA 1143882 A1 DE 2966238 D1 EP 0020742 A1 JP 55501059 T WO 8001384 A1	15-10-1983 29-03-1983 03-11-1983 07-01-1981 04-12-1980 10-07-1980
WO 9105579	A	02-05-1991	SE 466990 B AU 6618890 A SE 8903479 A WO 9105579 A1	11-05-1992 16-05-1991 21-04-1991 02-05-1991